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OM protein - protein search, using sw model

Run on: February 16, 2005, 16:26:39 ; Search time 135.466 Seconds
(without alignments)
2235.960 Million cell updates/sec

Title: US-10-003-356-8
Perfect score: 4904
Sequence: 1 MFERRKEQDEGPGIHEFLAF.....TVSTVLDORVLIYMCPLKLQ 927

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
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- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4904	100.0	927	13	US-10-003-356-8
2	3962	80.8	912	15	US-10-436-715-84
3	2980	60.8	755	15	US-10-292-798-450
4	1986	40.5	380	13	US-10-003-356-5
5	1749	35.7	365	14	US-10-017-161-510
6	1749	35.7	365	15	US-10-343-650A-52
7	1695.5	34.6	1085	14	US-10-159-339-10
8	1695.5	34.6	1085	15	US-10-041-615-108
9	1695.5	34.6	1085	15	US-10-436-715-21
10	1695.5	34.6	1085	15	US-10-436-715-75
11	1690.5	34.5	1079	14	US-10-159-339-9
12	1690.5	34.5	1079	15	US-10-436-715-24
13	1690.5	34.5	1079	15	US-10-436-715-73

14	1690.5	34.5	1079	15	US-10-673-888-2	Sequence 2, Appli
15	1688.5	34.4	1027	14	US-10-125-792-2	Sequence 2, Appli
16	1688.5	34.4	1027	14	US-10-125-792-2	Sequence 2, Appli
17	1688.5	34.4	1027	14	US-10-268-051-8	Sequence 8, Appli
18	1688.5	34.4	1027	14	US-10-125-772-2	Sequence 2, Appli
19	1688.5	34.4	1027	14	US-10-016-496-2	Sequence 2, Appli
20	1688.5	34.4	1027	15	US-10-410-885-2	Sequence 2, Appli
21	1687.5	34.4	1078	13	US-10-002-854-2	Sequence 2, Appli
22	1687.5	34.4	1078	14	US-10-225-567A-118	Sequence 118, App
23	1687.5	34.4	1078	14	US-10-159-339-8	Sequence 8, Appli
24	1687.5	34.4	1078	15	US-10-436-715-22	Sequence 22, Appl
25	1687.5	34.4	1078	15	US-10-436-715-74	Sequence 74, Appl
26	1687.5	34.4	1078	15	US-10-416-588-3	Sequence 3, Appli
27	1687.5	34.4	1078	16	US-10-408-765A-171	Sequence 171, App
28	1685.5	34.4	1079	15	US-10-436-715-23	Sequence 23, Appl
29	1685.5	34.4	1079	15	US-10-436-715-72	Sequence 72, Appl
30	1684.5	34.3	1078	9	US-09-727-205-2	Sequence 2, Appli
31	1673.5	34.1	1088	15	US-10-673-888-1	Sequence 1, Appli
32	1668.5	34.0	867	15	US-10-179-373-19	Sequence 19, Appl
33	1668.5	34.0	867	16	US-10-725-103-19	Sequence 19, Appl
34	1668.5	34.0	867	16	US-10-725-489-19	Sequence 19, Appl
35	1668.5	34.0	867	16	US-10-725-080A-19	Sequence 19, Appl
36	1668.5	34.0	867	16	US-10-725-472A-19	Sequence 19, Appl
37	1660.5	33.9	1078	14	US-10-125-792-28	Sequence 28, Appl
38	1660.5	33.9	1078	14	US-10-125-778-28	Sequence 28, Appl
39	1660.5	33.9	1078	14	US-10-125-772-28	Sequence 28, Appl
40	1660.5	33.9	1078	15	US-10-410-885-30	Sequence 30, Appl
41	1630.5	33.2	940	15	US-10-041-615-107	Sequence 107, App
42	1630.5	33.2	941	14	US-10-125-792-8	Sequence 8, Appli
43	1630.5	33.2	941	14	US-10-125-778-8	Sequence 8, Appli
44	1630.5	33.2	941	14	US-10-125-772-8	Sequence 8, Appli
45	1630.5	33.2	941	15	US-10-410-885-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-10-003-356-8
; Sequence 8, Application US/10003356
; Publication No. US20020146418A1
; GENERAL INFORMATION:
; APPLICANT: Lok, Si
; APPLICANT: Holloway, James L.
; TITLE OF INVENTION: Human V2 Vomeronasal Receptor
; FILE REFERENCE: 00-107
; CURRENT APPLICATION NUMBER: US/10/003,356
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/252,373
; PRIOR FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 927
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric receptor.
US-10-003-356-8

Query Match	100.0%	Score 4904;	DB 13;	Length 927;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 927;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MFERRKEQDEGPGIHEFLAFWLAEGLGSEAKEEKEERTCRLLGKCVDAENHSLVIGGLFP	60	
Db	1	MFERRKEQDEGPGIHEFLAFWLAEGLGSEAKEEKEERTCRLLGKCVDAENHSLVIGGLFP	60	
Qy	61	IDSRTPANESILEPASAKCEGFNFRWMKAMIHMIKEINKRKDILPNITLGYQIFDT	120	
Db	61	IDSRTPANESILEPASAKCEGFNFRWMKAMIHMIKEINKRKDILPNITLGYQIFDT	120	
Qy	121	CFTISKSVEAVLVLTGTQEENRPNFRNSTGAPGIVGAGGSFLSVPASRILGLYLPQV	180	

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Db 121 CFTISKVEAVLVLTGQENRPNFRNSTGAPFAGIVGAGGSFLSPASRIILGLYLPQV 180
Qy 181 GYTSTCVILSDKYQFSPYLRVIASDKIQSKAVVKRIQHFGVWVWGAIADDDYKYGKVT 240
Db 181 GYTSTCVILSDKYQFSPYLRVIASDKIQSKAVVKRIQHFGVWVWGAIADDDYKYGKVT 240
Qy 241 FKEKVESANLVCVAFSETIPKVYSNEKMQKAVKAVKTSTAKVILYTSIDLSLFLVLEMIH 300
Db 241 FKEKVESANLVCVAFSETIPKVYSNEKMQKAVKAVKTSTAKVILYTSIDLSLFLVLEMIH 300
Qy 301 HNTDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKBEFLYDVHPNKPND 360
Db 301 HNTDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKBEFLYDVHPNKPND 360
Qy 361 VLTIEFWQTAFCNCTWPNSSVPYNVDHRVNMGTGKEDRLYDMSDQLCTGEEKLEDLKNTYLD 420
Db 361 VLTIEFWQTAFCNCTWPNSSVPYNVDHRVNMGTGKEDRLYDMSDQLCTGEEKLEDLKNTYLD 420
Qy 421 TSQLRITKQCKQAVAIAGLDHLSRCQEGQPGFSGNQOCAYIPTDFWQLMYMKKEIKF 480
Db 421 TSQLRITKQCKQAVAIAGLDHLSRCQEGQPGFSGNQOCAYIPTDFWQLMYMKKEIKF 480
Qy 481 KSHEDKWVILDDNGDLKNGHYDVLNWHLDDEGEISFVTVGRFNRSTNFELVPTNSTIF 540
Db 481 KSHEDKWVILDDNGDLKNGHYDVLNWHLDDEGEISFVTVGRFNRSTNFELVPTNSTIF 540
Qy 541 WNTESSRLPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCQGEDY 600
Db 541 WNTESSRLPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCQGEDY 600
Qy 601 WSNACKSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVVVIHRHTPLVNASDWQ 660
Db 601 WSNACKSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVVVIHRHTPLVNASDWQ 660
Qy 661 LGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLGKTSSFLAYRIS 720
Db 661 LGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLGKTSSFLAYRIS 720
Qy 721 KSKTQLTSMHPLYRKIIIVLSVLAIEIGICTAYLILEPPMVYKNMESQNTKIIILGCNEISI 780
Db 721 KSKTQLTSMHPLYRKIIIVLSVLAIEIGICTAYLILEPPMVYKNMESQNTKIIILGCNEISI 780
Qy 781 EFLYSMFGIDAFALLCFLTTFVARQLPDNYEGKCIITFGMLVFIIWMSFVPVYLSK 840
Db 781 EFLYSMFGIDAFALLCFLTTFVARQLPDNYEGKCIITFGMLVFIIWMSFVPVYLSK 840
Qy 841 KFKMAVEIFAILASSHGLLCIFAPKCLIIILRPERNTSEIVCGRVSTTDNCIQLTSAFV 900
Db 841 KFKMAVEIFAILASSHGLLCIFAPKCLIIILRPERNTSEIVCGRVSTTDNCIQLTSAFV 900
Qy 901 SSELNNTTVSTVLDLDRVLIYMCPLKLQ 927
Db 901 SSELNNTTVSTVLDLDRVLIYMCPLKLQ 927

RESULT 2
US-10-436-715-84
; Sequence 84, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: U.S. 60/380,336
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 84
; LENGTH: 912
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; TYPE: PRT
; ORGANISM: Mus musculus
US-10-436-715-84

Query Match      80.8%; Score 3962; DB 15; Length 912;
Best Local Similarity 82.6%; Pred. No. 0;
Matches 747; Conservative 62; Mismatches 87; Indels 8; Gaps 2;

Qy 17 FLAPLWAEIGSEAKEEKEERTCLLIGK-----CVDAENHSLVIGLFPIDSRTPANES 71
Db 12 FLAPLWAVLGA---QNKTEEVQCRMLMAKFNLSGYVDAKNHSLSVIAGLFPPIHSRIIPVDEA 68
Qy 72 ILBPASAKCEGFNFQFRWMKAMIHMIKEINKRKDILPNITLGYQIFDTCFTTISKSV 131
Db 69 ILEPVSPMCEGFNFRGRMKTMIHTIKEINERKDILPNHTLGYQIFDSCYTIKAMESS 128
Qy 132 LVFLTGQENRPNFRNSTGAPFAGIVGAGGSFLSPASRIILGLYLPQVGYTSTCVILSD 191
Db 129 LVFLTGQEEFKPNFRNSTGTLAALVSGSGSSLSVAASRIILGLYMPQVGYTSSCSILSD 188
Qy 192 KYOPPSYLRVIASDKIQSKAVVKRIQHFGVWVWGAIADDDYKYGKVKTFKEMESANLC 251
Db 189 KFOFPSYLRVLPSDNLQSEAIVNLIKHFGVWVWGAIADDDYKYGKVKTFKEMESANLC 248
Qy 252 VAFSETIPKVYSNEKMQKAVKAVKTSTAKVIVLYTSDIDLSLFLVLEMIHNTDRTWIAT 311
Db 249 VAFSETIPKVYSNEKMQKAVKAVKTSTAKVIVLYTSDIDLSLFLVLEMIHNTDRTWIAT 308
Qy 312 EAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTIEFWQTAF 371
Db 309 EAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTIEFWQTAF 368
Qy 372 NCTWPNSSVPYNVDHRVNMGTGKEDRLYDMSDQLCTGEEKLEDLKNTYLDTSQLRITKQCK 431
Db 369 NCTWPNSSVPYNVDHRVNMGTGKEDRLYDMSDQLCTGEEKLEDLKNTYLDTSQLRITKQCK 428
Qy 432 QAVYAIAGLDHLSRCQEGQPGFSGNQOCAYIPTDFWQLMYMKBIKFKSHEDKWVILD 491
Db 429 QAVYAIAGLDHLSRCQEGQPGFSGNQOCAYIPTDFWQLMYMKBIKFKSHEDKWVILD 488
Qy 492 DNGDLKNGHYDVLNWHLDDEGEISFVTVGRFNRSTNFELVPTNSTIFWNTESSRLPHS 551
Db 489 DNGDLKNGHYDVLNWHLDDEGEISFVTVGRFNRSTNFELVPTNSTIFWNTESSRRPDS 548
Qy 552 VCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQGEDYWSNAQSECVL 611
Db 549 FCTQVCPPTGRKGIROGPICFCDCIPCADGYVSEKSGQRECDPCGEDDWSNAGSKCVP 608
Qy 612 KEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVVVIHRHTPLVNASDWQGLFIQVSLII 671
Db 609 KLVEFLAYGEALGFTLVILSIFGALVVLAVTVVVIHRHTPLVKANDRELSFLIQMSLVI 668
Qy 672 MLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLGKTSSFLAYRISKSKTQLTSMHP 731
Db 669 TVLSSLLFIGKPCNWSCMARQITLALGFCLCLSSILGKTISLFPAYRISVSKTRLISMHP 728
Qy 732 LYRKIIIVLSVLAIEIGICTAYLILEPPMVYKNMESQNTKIIILGCNEISIEFLYSMFGIDA 791
Db 729 IFRKLIIVCVVGEIGVCAAYLVLEPPRMFKNIEIQNKIIFECNEGSVEFLCSIFGFDV 788
Qy 792 FLALLCFLTTFVARQLPDNYEGKCIITFGMLVFIIWMSFVPVYLSKTKGFKMAVEIFAI 851
Db 789 LRALLCFLTTFVARQLPDNYEGKCIITFGMLVFIIWISFVPAYLSKTKGFKMAVEIFAI 848
Qy 852 LASSHGLLCIFAPKCLIIILRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNTTVST 911
Db 849 LASSYGLLGLFLPKCFIILRPKRNTDETVGGRVPTVDRSIQLTSASVSSELNNTTVST 908
Qy 912 VLDD 915
Db 909 VLDE 912
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RESULT 3
US-10-292-798-450
; Sequence 450, Application US/10292798
; Publication No. US20030235833A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 450
; LENGTH: 755
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-292-798-450

Query Match      60.8%; Score 2980; DB 15; Length 755;
Best Local Similarity 66.1%; Pred. No. 3.2e-259;
Matches 621; Conservative 34; Mismatches 88; Indels 196; Gaps 13;

QY 1 MFERRKEQDEGPGIHEFLAFLWAEGLGSEAKKEKEERTCRLLGKCVDAENHSLVIGGLFP 60
Db 1 MFERRKEQDEGPGIHEFLAFLWAEGLGSEAKKEKEERTCRLLGKCVDAENHSLVIGGLFP 60

QY 61 IDSRTIPANESILEPASAKCEGFNFRFWKAMIHMIKEINKRKDILPNITLGYQIFDT 120
Db 61 IDSRTIPANESILEPASAKCEGFNFRFWKAMIHMIKEINKRKDILPNITLGYQIFDT 120

QY 121 CFTISKSVEAVLVLFTGQENRPNFRNSTGAPPAGIVGAGGSFLSVPASRILGLYLPQV 180
Db 121 CFTISKSVEAVLVLFTGQENRPNFRNSTGAPPAGIVGAGGSFLSVPASRILGLYLPQV 180

QY 181 GYTSTCVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHFGWVWVGAIADDDYGYGVKT 240
Db 181 GYTSTCVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHFGFL-----T 223

QY 241 FKEKMEANLCAVAFSETIPKVSNEKMQKAVKAVKTSTAKVIVLYTSDIDLFLVLEMIH 300
Db 224 LSPRLCESGAILA-----H 237

QY 301 HNIIDRTWIATEANITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPNKPND 360
Db 238 GNL----- 240

QY 361 VLTIEFWQTAFNCTWPNSSVPYNVDHRVNMTEKEDRLYDMSDQLC-TGEEKLEDLKNTYL 419
Db 241 CLPVE-----TG-----FCHVAQAGLEFLASNYL 264

QY 420 DTSQLRITKQCKQAVYAIAHGLDHLSRCQEQGGPGSGNQCCAYIPTDFWQL---MYMK 476
Db 265 TASASQ-----SAGITGVSH-----CAMPSTIELWIIQHIYFRM 299

QY 477 EIKFKSHEDKWILDNDGDLKNGHYDVILNWHLDDEGEISFV--TVGRFNFRSTNFELVIP 534
Db 300 NCRVTTESRSVAMLEYSGEISAHCHLCLLGSSNSPASAPLVAGTTGAHHAQLIFVFLVE 359

QY 535 TNSTIFWNTESSRLPHSV----CTDVCP-PGTGRGFVQREPICCFDSIPCADGHVSRKP 588
Db 360 TG---FHVVSQDGLDLSIFPIQCVMCLVLLGLGRGFVQREPICCFDSIPCADGHVSRKP 416

QY 589 GERECEQCGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVIH 648
Db 417 GERECEQCGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVIH 476
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QY 649 RHTPLVNASDWOLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLG 708
Db 477 RHTPLVNASDWOLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLG 536

QY 709 KTSSLFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEIGICTAYLILEPPPMYKNMESQN 768
Db 537 KTSSLFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEIGICTAYLILEPPPMYKNMESQN 596

QY 769 TKIILGCNEISIEFLYSMEGIDAPLALLCFLTTFVARQLPDNYYEGKCIITFGMLVFFIIV 828
Db 597 TKIILGCNEISIEFLYSMEGIDAPLALLCFLTTFVARQLPDNYYEGKCIITFGMLVFFIIV 656

QY 829 MSFVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVCGRVST 888
Db 657 MSFVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVCGRVST 716

QY 889 TDNCIQLTSAFVSSELNNTTVSTVLDLDRVLIYMCPLKLQ 927
Db 717 TDNCIQLTSAFVSSELNNTTVSTVLDLDRVLIYMCPLKLQ 755

RESULT 4
US-10-003-356-5
; Sequence 5, Application US/10003356
; Publication No. US20020146418A1
; GENERAL INFORMATION:
; APPLICANT: Lok, Si
; APPLICANT: Holloway, James L.
; TITLE OF INVENTION: Human V2 Vomeronasal Receptor
; FILE REFERENCE: 00-107
; CURRENT APPLICATION NUMBER: US/10/003,356
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/252,373
; PRIOR FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-003-356-5

Query Match      40.5%; Score 1986; DB 13; Length 380;
Best Local Similarity 100.0%; Pred. No. 5.2e-170;
Matches 380; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 548 LPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCGEDYWSNAQS 607
Db 1 LPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCGEDYWSNAQS 60

QY 608 ECVLKEVEYLAYDEALGFTLVILSVFGAFVLA VAVYVIHRHTPLVNASDWOLGFLIQV 667
Db 61 ECVLKEVEYLAYDEALGFTLVILSVFGAFVLA VAVYVIHRHTPLVNASDWOLGFLIQV 120

QY 668 SLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLGKTSFLAYRISKSTQLT 727
Db 121 SLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLGKTSFLAYRISKSTQLT 180

QY 728 SMHPLYRKIIIVLSVLAEIGICTAYLILEPPPMYKNMESQNTKIILGCNEISIEFLYSMF 787
Db 181 SMHPLYRKIIIVLSVLAEIGICTAYLILEPPPMYKNMESQNTKIILGCNEISIEFLYSMF 240

QY 788 GIDAPLALLCFLTTFVARQLPDNYYEGKCIITFGMLVFFIIMWSFVPVYLSTKGKFKMAVE 847
Db 241 GIDAPLALLCFLTTFVARQLPDNYYEGKCIITFGMLVFFIIMWSFVPVYLSTKGKFKMAVE 300

QY 848 IFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVCGRVSTTDCIQLTSAFVSSELNNT 907
Db 301 IFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVCGRVSTTDCIQLTSAFVSSELNNT 360

QY 908 TVSTVLDLDRVLIYMCPLKLQ 927
Db 361 TVSTVLDLDRVLIYMCPLKLQ 380
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RESULT 5
US-10-017-161-510
; Sequence 510, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 510
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-017-161-510

Query Match      35.7%; Score 1749; DB 14; Length 365;
Best Local Similarity 99.1%; Pred. No. 1.2e-148;
Matches 341; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 584 VSRKPGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 643
Db 22 VLRSIGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 81

QY 644 VYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 703
Db 82 VYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 141

QY 704 SCLLGKTSLSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 763
Db 142 SCLLGKTSLSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 201

QY 764 MESQNTKIILGCNEISIEFLYSFMFGIDAFLLCFLTTFFVARQLPDNYYEGKCITFGMLV 823
Db 202 MESQNTKIILGCNEISIEFLYSFMFGIDAFLLCFLTTFFVARQLPDNYYEGKCITFGMLV 261

QY 824 FFIWMSFVPVYLSLTKGFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVC 883
Db 262 FFIWMSFVPVYLSLTKGFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVC 321

QY 884 GRVSTTDCNQLTS AFVSSELNNTTVSTVLDLDRVLIYMCPLKIQ 927
Db 322 GRVSTTDCNQLTS AFVSSELNNTTVSTVLDLDRVLIYMCPLKIQ 365

QY 584 VSRKPGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 643
Db 22 VLRSIGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 81

QY 644 VYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 703
Db 82 VYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 141

QY 704 SCLLGKTSLSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 763
Db 142 SCLLGKTSLSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 201

QY 764 MESQNTKIILGCNEISIEFLYSFMFGIDAFLLCFLTTFFVARQLPDNYYEGKCITFGMLV 823
Db 202 MESQNTKIILGCNEISIEFLYSFMFGIDAFLLCFLTTFFVARQLPDNYYEGKCITFGMLV 261

QY 824 FFIWMSFVPVYLSLTKGFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVC 883
Db 262 FFIWMSFVPVYLSLTKGFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVC 321

QY 884 GRVSTTDCNQLTS AFVSSELNNTTVSTVLDLDRVLIYMCPLKIQ 927
Db 322 GRVSTTDCNQLTS AFVSSELNNTTVSTVLDLDRVLIYMCPLKIQ 365

RESULT 6
US-10-343-650A-52
; Sequence 52, Application US/10343650A
; Publication No. US20040067499A1
; GENERAL INFORMATION:
; APPLICANT: HAGA, TATSUYA
; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR
; FILE REFERENCE: 31671-186347
; CURRENT APPLICATION NUMBER: US/10/343,650A
; CURRENT FILING DATE: 2003-07-21
; PRIOR APPLICATION NUMBER: JP 2000/237818
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: JP 2001/34434
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 694
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 365
; TYPE: PRT
```

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; ORGANISM: Homo sapiens
US-10-343-650A-52

Query Match      35.7%; Score 1749; DB 15; Length 365;
Best Local Similarity 99.1%; Pred. No. 1.2e-148;
Matches 341; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 584 VSRKPGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 643
Db 22 VLRSIGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 81

QY 644 VYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 703
Db 82 VYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 141

QY 704 SCLLGKTSLSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 763
Db 142 SCLLGKTSLSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 201

QY 764 MESQNTKIILGCNEISIEFLYSFMFGIDAFLLCFLTTFFVARQLPDNYYEGKCITFGMLV 823
Db 202 MESQNTKIILGCNEISIEFLYSFMFGIDAFLLCFLTTFFVARQLPDNYYEGKCITFGMLV 261

QY 824 FFIWMSFVPVYLSLTKGFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVC 883
Db 262 FFIWMSFVPVYLSLTKGFKMAVEIFAILASSHGLLGCI FAPKCLIIILLRPERNTSEIVC 321

QY 884 GRVSTTDCNQLTS AFVSSELNNTTVSTVLDLDRVLIYMCPLKIQ 927
Db 322 GRVSTTDCNQLTS AFVSSELNNTTVSTVLDLDRVLIYMCPLKIQ 365

RESULT 7
US-10-159-339-10
; Sequence 10, Application US/10159339
; Publication No. US20030166540A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR,
; TITLE OF INVENTION: HGPRMY30
; FILE REFERENCE: D0169NP
; CURRENT APPLICATION NUMBER: US/10/159,339
; CURRENT FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: US 60/294,411
; PRIOR FILING DATE: 2001-05-30
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: BOS TAURUS
US-10-159-339-10

Query Match      34.6%; Score 1695.5; DB 14; Length 1085;
Best Local Similarity 39.3%; Pred. No. 4.5e-143;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY 53 LVIGGLFPIDSR TIPANESI-LEPASAKCEGFNFORFRWKAMIHMIKEINKRKDILPNI 111
Db 33 IILGGLFPIHFHFGVAVKDQDLKSRPESVECI RYNFGRFWLQAMIFAEEINSSPALLPNM 92

QY 112 TLGYQIFDTCFTTISKSV EAVLVFLTGQE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLD EFCNCSEHIPSTIAVVGATSGIST 152

QY 167 PASRILGLYLPQVGYTSTCVILSDKYQFPSPYLRVIASDKIQSKAVVKRIQHFGWVWGA 226
Db 153 AVANLLGLFYIPQVSYASSSRLLSNKNQFKSFLRTPNDEHQATAMADIIEYFRWNWVGT 212

QY 227 IAADDDYGYKVGTFFKEKME SANLCVAFSETIPKYPVSNEKMQKAVKAVKTSTAKVIVLYT 286
Db 213 IAADDDYGRPGIEKFREEAEERD ICIDFSELISQYSDEEKIQQVVEVIONSTAKVIVVS 272
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QY 287 SDIDLSLFVLEMIHNITDRTWIATEAWITSALIAKPEYFPYFGGTIGPATPRSVIPGLK 346
Db 273 SGPDLLEPLIKEIVRRNITGRWLASEAWASSLIAMPEYFHVVGTTGFLKAGQIPGFR 332
QY 347 EFLYDVHPNKDNDVLTIEFWQTAFCN-TWPNSSVPYNVDHRVNMTKEDRLDYMSDQ-- 403
Db 333 EFLQKVHPRKSVHNGFAKEFEWETFNCHLOEGAKGPLVD--TFLRGHEEGGARLSNSPT 390
QY 404 ----LCTGEEKLEDLKNYLDTSQLRITKQCKQAVYAIAGHLDHLSRCQEGQPGFGSNQ 459
Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNNVYLAIVSYIAHALQDIYTCIPGRGLF-TNGS 449
QY 460 CAYIPTDFWQLMYMKEIKFKSHEDKWILDDNGDLKNGHYDVLNWHLD-DEGEISFVT 518
Db 450 CADIKKVEAWQVLKHLRHLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVFKE 508
QY 519 VGRFNRSTNFEVIPNTSTIFWNTESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIP 578
Db 509 VGYNVYAKKGERLFINDEKILWSGFSREVFFSNCSRDCLAGTRKGIIEGPTCCFECVE 568
QY 579 CADGHVSRKPGERECEQCAGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVV 638
Db 569 CPDGEYSDETASACDKCPDDFWSNENHTSCIAKIEFLSWTEPFGIALTLFAVLGIFLT 628
QY 639 LAVTAVYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698
Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLLFSLCCFSSSLFFIGEPODWTCLRQPAFGIS 688
QY 699 FSLCLSLGKTSSFLAYRISKSKTQLTSMHPLYRK-----IIVLISVLAIEIGICT 750
Db 689 FVLCISCILVKTNRVLLVF--EAKIP-TSFH--RKWGLNLQFLLVFLCTFMQIVICA 741
QY 751 AYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMEFGIDAFLLALCFLTTFVARQLPDN 810
Db 742 IWLNTAPPSSYRNHELEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPEN 801
QY 811 YIEGKCITFGMLVFFIWMSPVYVLTSGKPKMAVEIFAIALASHGLLGCIFAPKCLII 870
Db 802 FNEAKFITFSMLIFFIVWISFIPAYASTYKGFVSAVEVIAIALAASFGLLACIFFNKVYII 861
QY 871 LLRPERNTSEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911
Db 862 LFKPSRNTIEEV--RCSTA AHAFKVAARATLRRSNVSRQRSSSLGGSTGST 910

RESULT 8
US-10-041-615-108.
; Sequence 108, Application US/10041615
; Publication No. US20040014038A1
; GENERAL INFORMATION:
; APPLICANT: Casman, Stacie J
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Smithson, Glenda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: No. US20040014038A1el GPCR-Like Proteins and Nucleic Acids Encodi
; FILE REFERENCE: 21402-233-061
; CURRENT APPLICATION NUMBER: US/10/041,615
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: 60/259,552
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/260,544
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/277,405
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 108
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-041-615-108

Query Match 34.6%; Score 1695.5; DB 15; Length 1085;
Best Local Similarity 39.3%; Pred. No. 4.5e-143;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;
QY 53 LVIGGLFPIDSRITIPANESI-LEPASAKCEGFNFQFRMMKAMIHMIKEINKRKDILPNI 111
Db 33 IILGGLFPIHFGVAVKDQDLKSRPESVECIYRNFGRFWLQAMIFAIEEINSSPALLPNM 92
QY 112 TLGYQIPDTCFTTISKSV EAVLVLTQOE---ENRPNERNSTGAPPA--GIVGAGGSFLSV 166
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDDEFNCSEHIPSTIAVVGATGSGIST 152
QY 167 PASRIILGLYLPQVGYTSTCVILSDKYQFPFSYLRLVIAASDKIQSKAVVKRIQHFQWVWGA 226
Db 153 AVANLLGLFYIPQVSYASSSRLLSNKNQFKSFLRTIPNDEHQATAMADII EYFRWNWVGT 212
QY 227 IAADDYGYKVKTTFKEKMEANLVCVAFSETIPKVYSNEKMQAKAVKAVKTSTAKVIVLYT 286
Db 213 IAADDYGRPGIEKFREEAEERDIDCFSELISQYSDEEKIQOVVEIQNSTAKVIVFS 272
QY 287 SDIDLSLFVLEMIHNITDRTWIATEAWITSALIAKPEYFPYFGGTIGPATPRSVIPGLK 346
Db 273 SGPDLLEPLIKEIVRRNITGRWLASEAWASSLIAMPEYFHVVGTTGFLKAGQIPGFR 332
QY 347 EFLYDVHPNKDNDVLTIEFWQTAFCN-TWPNSSVPYNVDHRVNMTKEDRLDYMSDQ-- 403
Db 333 EFLQKVHPRKSVHNGFAKEFEWETFNCHLOEGAKGPLVD--TFLRGHEEGGARLSNSPT 390
QY 404 ----LCTGEEKLEDLKNYLDTSQLRITKQCKQAVYAIAGHLDHLSRCQEGQPGFGSNQ 459
Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNNVYLAIVSYIAHALQDIYTCIPGRGLF-TNGS 449
QY 460 CAYIPTDFWQLMYMKEIKFKSHEDKWILDDNGDLKNGHYDVLNWHLD-DEGEISFVT 518
Db 450 CADIKKVEAWQVLKHLRHLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVFKE 508
QY 519 VGRFNRSTNFEVIPNTSTIFWNTESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIP 578
Db 509 VGYNVYAKKGERLFINDEKILWSGFSREVFFSNCSRDCLAGTRKGIIEGPTCCFECVE 568
QY 579 CADGHVSRKPGERECEQCAGEDYWSNAQSECVLKEVEYLAYDEALGFTLVILSVFGAFVV 638
Db 569 CPDGEYSDETASACDKCPDDFWSNENHTSCIAKIEFLSWTEPFGIALTLFAVLGIFLT 628
QY 639 LAVTAVYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698
Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLLFSLCCFSSSLFFIGEPODWTCLRQPAFGIS 688
QY 699 FSLCLSLGKTSSFLAYRISKSKTQLTSMHPLYRK-----IIVLISVLAIEIGICT 750
Db 689 FVLCISCILVKTNRVLLVF--EAKIP-TSFH--RKWGLNLQFLLVFLCTFMQIVICA 741
QY 751 AYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMEFGIDAFLLALCFLTTFVARQLPDN 810
Db 742 IWLNTAPPSSYRNHELEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPEN 801
QY 811 YIEGKCITFGMLVFFIWMSPVYVLTSGKPKMAVEIFAIALASHGLLGCIFAPKCLII 870
Db 802 FNEAKFITFSMLIFFIVWISFIPAYASTYKGFVSAVEVIAIALAASFGLLACIFFNKVYII 861
QY 871 LLRPERNTSEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911
Db 862 LFKPSRNTIEEV--RCSTA AHAFKVAARATLRRSNVSRQRSSSLGGSTGST 910

RESULT 9
US-10-436-715-21
; Sequence 21, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,



Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLLSLLCCFSSSLFFIGEPODWTCLRQPAFGIS 688

QY 699 FSLCLSLGKTSLSFLAYRISKSKTQLTSMHPLYRK-----IIVLSVLAIEGICT 750

Db 689 FVLCSICILVKTNRVLLVF---EAKIP-TSPH---RKWGLNLQFLLVFLCTFMQIVICA 741

QY 751 AYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMFGIDAFALALLCFLTTFVARQLPDN 810

Db 742 IWLNTAPPSSYRNHELEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFPAFKSRKLPEN 801

QY 811 YIEGKCITFGMLVFFIWMFVPVYLSTKGFKMAVEIFAIALASSHGLGICFAPKCLII 870

Db 802 FNEAKFITFSLIFFIIVWISFIPAYASTYKGFVSAVEVIAILAAAFGLLACIFFNKVYII 861

QY 871 LLRPERNTSEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911

Db 862 LFKPSRNTIEEV--RCSTAAHAFKVAARATLRRSNVSRQRSSSLGGSTGST 910

RESULT 11

US-10-159-339-9

; Sequence 9, Application US/10159339

; Publication No. US20030165540A1

; GENERAL INFORMATION:

; APPLICANT: Bristol-Myers Squibb Company

; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR,

; TITLE OF INVENTION: HGPBMY30

; FILE REFERENCE: D0169NP

; CURRENT APPLICATION NUMBER: US/10/159,339

; CURRENT FILING DATE: 2002-05-30

; PRIOR APPLICATION NUMBER: US 60/294,411

; PRIOR FILING DATE: 2001-05-30

; NUMBER OF SEQ ID NOS: 94

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 9

; LENGTH: 1079

; TYPE: PRT

; ORGANISM: RATTUS NORVEGICUS

US-10-159-339-9

Query Match 34.5%; Score 1690.5; DB 14; Length 1079;

Best Local Similarity 38.0%; Pred. No. 1.3e-142;

Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFLW--AELGSEAKEEKEERTCRLLGKCVDAENHSLVIGGLFPIDSRTPANESI-LE 74

Db 11 LALAWHSSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKQDLKSR 54

QY 75 PASAKCEGFNFQFRWMKAMIHMIKEINKRKDILPNITLGYQIEDTCTFISKSVEAVLVF 134

Db 55 PESVECI RYNFRGRFWLQAMIFAIEEINSSPLLPNMTLGYRIFDTCNTVSKALEATLSP 114

QY 135 LTQOE---ENRPNFRNSTGAFPA--GIVGAGGSFLSVPASRIILGLYLPQVGYTSTCVIL 189

Db 115 VAQNKIDSLNLDEFNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQFPSYLRVIASDKIQSKAVVKRIQHFGWVWVGAIADDDYGYKGVKTFKEKMESAN 249

Db 175 SNKNQYKSFRLTIPNDEHQATAMADIIIEFRWNWVGTTIAADDDYGRPGIEKFREEAEERD 234

QY 250 LCVAFSETIPKVSNEKMQKAVKAVKTSTAKVIVLYTSDIDLSLFVLEMIHNTIDRTWI 309

Db 235 ICIDFSELISQSDDEEIQQVVEIQNSTAKVIVVVFSSGPDLEPLIKIIVRNRITGRWL 294

QY 310 ATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPKNDPNDVLTIEFWQT 369

Db 295 ASEAWASSSLIAMPYFHVVGTTIGFGLKACQIPGFRFLQKVHPRKSVHNGFAKEFWEE 354

QY 370 AFNCTWPNSS---VPYNVDRVRNMTGKEDRLYDMSD---QLCTGEEKLEDLKNTYLDTSQ 423

Db 355 TFNCHLQEGAKGLPVDTFVRSHEEG-GNRLNLSSTA FRPLCTGDENINSVETPYMDYEH 413

QY 424 LRITKOCKQAVVAIAHGLDHLSRCQEQGQPGFSGNQCCAYIPTDFWQLMYMKI KFKSH 483

Db 414 LRISYNVYLA VYSIAHALQDIYTCLPGRGLP-TNGSCADIKKVEAWQLKHLRHLNFTNN 472

QY 484 EDKWILDDNGDLKNGHYDVNLNHLNLD-DEGEISFVTVGRFNRSTNFELVIPNTNSTIFWN 542

Db 473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSI VFKVGYNNVYAKKGERLFINEEKILWS 531

QY 543 TESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIPCADGHVSRKPKGRECEQCCEGYWS 602

Db 532 GFSREVPFNSCRDCQAGTRKGIIEGPTCCFECEVCPDGEYSGETDASACDKCPDDFSW 591

QY 603 NAKSECVLKEVEYLAIDEALGFTLVLSVFGAFVLAVTAVYVIHRHTPLVNASDWQLG 662

Db 592 NENHTSCI AKEIEFLAWTEPPFGIALTLFAVLGIFLTA FVLGVFIKFRNTPIVKATNRELS 651

QY 663 FLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGPSLCLSLGKTSLSFLAYRISKS 722

Db 652 YLLLFSLCCFSSSLFFIGEPODWTCLRQPAFGISFVLCISCLVKTNRVLLVF---EA 708

QY 723 KTQLTSMHPLYRK-----IIVLSVLAIEGICTAYLILEPPMVYKNMESQNTKIILG 774

Db 709 KIP-TSPH---RKWGLNLQFLLVFLCTFMQILICIWLTYAPPSSYRNHELEDEIIFIT 764

QY 775 CNEISIEFLYSMFGIDAFALALLCFLTTFVARQLPDNYYEGKCITFGMLVFFIWMFVPV 834

Db 765 CHEGSLMALGSLIGYTCLLAAICFFPAFKSRKLPENFNEAKFITFMSMLIFFIIVWISFIPA 824

QY 835 YLSTKGFKMAVEIFAIALASSHGLGICFAPKCLII LLRPERNTSEIVCGRVSTTDNCIQ 894

Db 825 YASTYKGFVSAVEVIAILAAAFGLLACIFFNKVYIILFKPSRNTIEEV--RSSTAAHAFK 882

QY 895 LTSAFV-----SSELNNTTVS 910

Db 883 VAARATLRRPNISRKRSSSLGGSTGS 908

RESULT 12

US-10-436-715-24

; Sequence 24, Application US/10436715

; Publication No. US20040018976A1

; GENERAL INFORMATION:

; APPLICANT: Bristol-Myers Squibb Company

; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,

; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF

; FILE REFERENCE: D0262 NP

; CURRENT APPLICATION NUMBER: US/10/436,715

; CURRENT FILING DATE: 2003-05-13

; PRIOR APPLICATION NUMBER: U.S. 60/380,336

; PRIOR FILING DATE: 2002-05-14

; NUMBER OF SEQ ID NOS: 471

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 24

; LENGTH: 1079

; TYPE: PRT

; ORGANISM: Rattus norvegicus

US-10-436-715-24

Query Match 34.5%; Score 1690.5; DB 15; Length 1079;

Best Local Similarity 38.0%; Pred. No. 1.3e-142;

Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFLW--AELGSEAKEEKEERTCRLLGKCVDAENHSLVIGGLFPIDSRTPANESI-LE 74

Db 11 LALAWHSSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKQDLKSR 54

QY 75 PASAKCEGFNFQFRWMKAMIHMIKEINKRKDILPNITLGYQI P DTCFTISKSVEAVLVF 134

Db 55 PESVECI RYNFRGRFWLQAMIFAIEEINSSPLLPNMTLGYRIFDTCNTVSKALEATLSP 114

QY 135 LTQOE---ENRPNFRNSTGAFPA--GIVGAGGSFLSVPASRIILGLYLPQVGYTSTCVIL 189

Db 115 VAQNKIDSLNLDEFNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSRLL 174


```

; Publication No. US20040082588A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Ellen
; APPLICANT: Choy, Wai Nang
; APPLICANT: Mirro, Elmer
; TITLE OF INVENTION: METHODS FOR TREATING DISORDERS OF CALCIUM HOMEOSTASIS
; FILE REFERENCE: OC01600-US
; CURRENT APPLICATION NUMBER: US/10/673,888
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: 60/414,948
; PRIOR FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1079
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-673-888-2

Query Match      34.5%; Score 1690.5; DB 15; Length 1079;
Best Local Similarity 38.0%; Pred. No. 1.3e-142;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAPLW--AELGSEAKBEKEBERTCRLGLKCVDAENHSLVIGGLFPIDSRTPANESI-LE 74
Db 11 LALAWHSSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKDQDLKSR 54
QY 75 PASAKCEGFNFRFMKAMHMIKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134
Db 55 PESVECI RYNFRGFWLQAMIFAIEEINSSPSLLPNMTLGYRIFDTCNTVSKALEATLSF 114
QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFSLVSPASRILGLYVLPQVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDKFCNCEHIPSTIAVVGATSGVSTAVANLLGLFYIPQVSYASSRLL 174
QY 190 SDKYQPPSYLRVIAADKIQSKAVVKRIQHFQWVVGAIADDDYGYKGVKTFEKMESAN 249
Db 175 SNKNQYKSFRTIPNDEHQATAMADIIEYFRWNWVGTTAADDYGRPGIEKFREEAEERD 234
QY 250 LCVAFSETIPKVSNEKMQKAVKAVKTSTAKVIVLYTSDIDLFLVLEMIHNNITDRTWI 309
Db 235 ICIDFSELISQYSDDEIQVVEIQNSTAKVIVVSSGPDLEPLIKEIVERNITGRWL 294
QY 310 ATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTIEFWQT 369
Db 295 ASEAWASSSLIAMPEYFHVVGTTIGFGLKAGQIPGREFLQKVHPRKSVHNGFAKEFWEE 354
QY 370 APNCTWPNSS---VPYNVDHRVNMVTKGKEDRLYDMSD---QLCTGEEKLEDLKNTYLDTSQ 423
Db 355 TFNCHLQEGAKGPLPVDTFVRSHEEG-GNRLNLSSTAFRPLCTGDENINSVETPYMDYEH 413
QY 424 LRITKQCKQAVYATIAHGLDHLRSRCEGQGGPFGSNQQCAYIPTDFWQLMYMKEIKFKSH 483
Db 414 LRISYNYLAVYSIAHALQDIYTCLPGRGLF-TNGSCADIKKVEAWQVLKHLRHLNFTNN 472
QY 484 EDKWILDNDGDLKNGHYDVLNWHLN-DEGEISFVTVGRFNRSTNFELVPTNSTIFWN 542
Db 473 MGEQVTFDECGDLV-GNYSIINWHLSPEDGSIVPKEVGYNYVYAKKGERLFINEEKILWS 531
QY 543 TESSRLPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCCEGDIWS 602
Db 532 GFSREVFPNSCSRDCQAGTRKGIIEGEPTCCFECVCEPDGEYSGETDASACDKCPDDFWS 591
QY 603 NAOKSECVLKEVEYLAYDEALGFTLVILSVGAFVVLAVTAVYIHRHTPLVNASDWQLG 662
Db 592 NENHTSCIAKEIEFLAWTEPFGLIALTLFVAVLGIFLTAFLVGVFIKFRNTPIVKATNRELS 651
QY 663 FLIQVSLIIMLLSSMLPIDKPHNWSMAGQVTLALGFSCLSLCKTSSFLAYRISKS 722
Db 652 YLLFSLCCFSSSLFPFGEQPDWTCRLRQAPAGISFVLCISCLVKTNRVLLVF---EA 708
QY 723 KTQLTSMHPLYRK-----IIVLISVLAIEIGICTAYLILEPPMVYKNMESQNTKIILG 774
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Db 709 KIP-TSFH---RKWGLNLQFLLVFLCTFMQILICIIWLTYAPPSSYRNHELEDEIIFIT 764
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Db 765 CHEGSLMALGSLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPA 824
QY 835 YLSTKGKFKMAVEIFAILASSHGLGCIAPKCLIIILLRPERNTSEIVCGRVSTTDCNQ 894
Db 825 YASTYGRFVSAVEVIAILAAASFGLLACIFFNKVYIILFKPSRNTIEEV--RSSTAHAHFK 882
QY 895 LTSAFV-----SSELNNTTVS 910
Db 883 VAARATLRRPNISRKRSSSLGGSTGS 908

RESULT 15
US-10-125-792-2
; Sequence 2, Application US/10125792
; Publication No. US20030051269A1
; GENERAL INFORMATION:
; APPLICANT: MariCal
; APPLICANT: Harris, H. William
; APPLICANT: Nearing, Jacqueline A.
; APPLICANT: Betka, Marlies
; TITLE OF INVENTION: Polyvalent Cation-Sensing Receptor in Atlantic Salmon
; FILE REFERENCE: 2213.1006-007
; CURRENT APPLICATION NUMBER: US/10/125,792
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 10/121,441
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: PCT/US01/31704
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 60/240,392
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: 60/240,003
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: Squalus acanthias
US-10-125-792-2

Query Match      34.4%; Score 1688.5; DB 14; Length 1027;
Best Local Similarity 38.6%; Pred. No. 1.8e-142;
Matches 346; Conservative 176; Mismatches 323; Indels 51; Gaps 14;

QY 53 LVIGGLFPIDSRTPANESI-LEPASAKCEGFNFRFMKAMHMIKEINKRKDILPNI 111
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QY 112 TLGYQIFDTCFTISKSVEAVLVLTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFSLV 166
Db 96 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDKFCNCSDHIPSTIAVVGATGSGIST 155
QY 167 PASRILGLYLPQVGYTSTCVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHFQWVWGA 226
Db 156 AVANLLGLFYIPQVSYASSRLLSNKNKNEYKAFRLTIPNDEQQATAMAEIIEHFQWNWVG 215
QY 227 IAADDDYGYKGVKTFEKMESANLCVAFSETIPKVSNEKMQKAVKAVKTSTAKVIVLYT 286
Db 216 LAADDDYGRPGIDKFREEAVKRDICIDPSEMISQYTTQKLEFIADVIQNSSAKVIVFS 275
QY 287 SDIDLFLVLEMIHNNITDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLK 346
Db 276 NGPDLEPLIQEIVRRNITDRIWLASEAWASSSLIAKPEYFHVVGTTIGFALRAGRIPGN 335
QY 347 EFLYDVHPNKPNDVLTIEFWQTAFCNTW-----PNSSVPYNVDHRVNMVTKGKEDRLY 398
Db 336 KFLKEVHPSSRSSDNGFVKEFEETFCYFTEKTLTLQKNKSKVP---SHGPAAQGDGSKAG 392
QY 399 DMSDQL-----CTGEEKLEDLKNYLDTSQLRITKQCKQAVYATIAHGLDHLRSRCEGQGP 454
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Db 393 NSRRALTARHPCTGEENITSVETPYLDYTHLRISYNVYVAVYSIAHALQDIHSCKPGTGIF 452
Qy 455 GSNQQCAYIPTDFWQLMYMKEIKFKSHEDKWVILDNDGDLKNGHYDVLNWHLDDEGE- 513
Db 453 -ANGSCADIKKVEAWQVNLHLLHFKFTNSMGEQVDFDDQQDLK-GNYTIINWQLSABDES 510
Qy 514 ISFVTVGRFNFRSTNFEELVIPTNSTIPWNTESSRLPHSVCTDVCPPGTGRGVQREPICC 573
Db 511 VLFHEVGNYNAYAKPSDRNLNINEKKILMSGFSKVVPFNSCSRDCVPGTRKGIIEGEPTCC 570
Qy 574 FDSIPCADGHVSRKPGERECEQCGEDYWSNAQKSECVLKEVEYLAYDEALGFTLVLLSVF 633
Db 571 FECMACAEGEFSDENDASACTKCPNDFWSNENHTSCIAKEIEYLSWTEPFGIALTIPAVL 630
Qy 634 GAFVVLAVTAVYVTHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMACQV 693
Db 631 GILITSFVLGVFIKFRNTPIVKATNRELSYLLLFSLICCFSSSLIFIGEPRDWTCLRQP 690
Qy 694 TLALGFSCLCLLCKTSSFLAYRISKSTQLTSMHPLYRK-----IIVLISVLA 745
Db 691 AFGISFVLCISCLVKTNRVLLVE-AKIPTS-----LHRKWVGLNLQFLLVFLCILVQ 743
Qy 746 IGICTAYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMFGIDAFLLALLCFLTTFVAR 805
Db 744 IVTCIIWLYTAPSSSYRNHELEDEVIFITCEGSLMALGFLIGYTCLLAAICFFFAFKSR 803
Qy 806 QLPDNYEGKCITFGMLVFFIIMWSFVPVYLSTKGKFMAVEIPAILASSHGLLGCIAP 865
Db 804 KLPENFNEAKFITFSMLIFFIVWISFIPAYVSTYKGFVSAVEVIAILASSFGLLGCIYFN 863
Qy 866 KCLILLRPERNTSEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911
Db 864 KCVIILFKPCRNTEEV--RCSTAHAFAKVAARATLRRSAASRKRSLSLGGSTISS 917

Search completed: February 16, 2005, 16:41:47
Job time : 140.466 secs